

Claims

1. A cleaning sheet having an ability to pick-up and retain dirt, dust and/or other debris, said cleaning sheet comprising

5 a nonwoven web comprising a plurality of thermoplastic multicomponent, multilobal filaments, wherein each of the filaments comprises a plurality of raised lobal regions separated by depressed regions and the nonwoven web comprises voids between the plurality of multilobal filaments which allow for dirt, dust and/or other debris pick-up and retention within the nonwoven web.

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2. The cleaning sheet according to claim 1, wherein each multicomponent, multilobal filament comprises between 2 and 10 lobes.

15 3. The cleaning sheet according to claim 2, wherein each multicomponent, multilobal filament comprises between 2 and 5 lobes.

4. The cleaning sheet according to claim 1, wherein the thermoplastic multicomponent, multilobal filaments comprise a thermoplastic polymer selected from the group consisting of polyolefins, polyesters, polyamides, polycarbonates, polyurethanes, 20 polyvinylchloride, polytetrafluoroethylene, polystyrene, polylactic acid and blends thereof.

5. The cleaning sheet according to claim 1, wherein the multicomponent, multilobal filaments are bicomponent filaments comprising a first polymer component and a second polymer component.

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6. The cleaning sheet according to claim 5, wherein the first polymer component comprises polyethylene and the second polymer component comprises polypropylene.

7. The cleaning sheet according to claim 6, wherein the first polymer component and the second polymer component are arranged in a side-by-side configuration.

30 8. The cleaning sheet according to claim 1, wherein the multicomponent, multilobal filaments are crimped.

9. The cleaning sheet according to claim 1, wherein the bulk density of the sheet 35 is in the range of about 0.015 g/cm³ to about 0.075 g/cm³.

10. The cleaning sheet according to claim 1, wherein the basis weight of the sheet is between about 0.25 osy and about 25 osy.

5 11. The cleaning sheet according to claim 10, wherein the basis weight of the sheet is between about 0.5 osy and about 10 osy.

12. The cleaning sheet according to claim 11, wherein the basis weight of the sheet is between about 1.0 osy and about 5.0 osy.

10 13. The cleaning sheet according to claim 1, wherein the nonwoven web further comprises a plurality of pulp fibers intermingled with the plurality of multicomponent, multilobal filaments.

15 14. The cleaning sheet according to claim 1, wherein the nonwoven web further comprises a plurality of monolobal filaments intermingled with the plurality of the multicomponent, multilobal filaments.

20 15. The cleaning sheet according to claim 14, wherein the monolobal filaments comprise a thermoplastic polymer selected from the group consisting of polyolefins, polyesters, polyamides, polycarbonates, polyurethanes, polyvinylchloride, polytetrafluoroethylene, polystyrene, polylactic acid and blends thereof.

25 16. The cleaning sheet according to claim 15, wherein the monolobal filaments comprises monocomponent filaments, multicomponent filaments or a mixture thereof.

17. The cleaning sheet according to claim 16, wherein the monolobal filaments comprise multicomponent, monolobal filaments.

30 18. The cleaning sheet according to claim 17, wherein the multicomponent, monolobal filaments are bicomponent filaments comprising a first polymer component and a second polymer component.

19. The cleaning sheet according to claim 18, wherein the first polymer component comprises polyethylene and the second polymer component comprises polypropylene.

5 20. The cleaning sheet according to claim 19, wherein the first polymer component and the second polymer component are arranged in a side-by-side configuration.

10 21. The cleaning sheet according to claim 1, wherein the nonwoven web comprises a laminate structure having at least two layers, a first layer and a second layer, wherein the first layer comprises the plurality of multicomponent, multilobal filaments; and the second layer comprises a plurality of monolobal filaments.

15 22. The cleaning sheet according to claim 21, wherein the monolobal filaments comprises monocomponent filaments, multicomponent filaments or a mixture thereof.

20 23. The cleaning sheet according to claim 22, wherein the monolobal filaments comprise a thermoplastic polymer selected from the group consisting of polyolefins, polyesters, polyamides, polycarbonates, polyurethanes, polyvinylchloride, polytetrafluoroethylene, polystyrene, polylactic acid and blends thereof.

25 24. The cleaning sheet according to claim 22, wherein the monolobal filaments comprise multicomponent, monolobal filaments.

25 25. The cleaning sheet according to claim 24, wherein the multicomponent filaments are bicomponent filaments comprising a first polymer component and a second polymer component.

30 26. The cleaning sheet according to claim 25, wherein the first polymer component comprises polyethylene and the second polymer component comprises polypropylene.

35 27. The cleaning sheet according to claim 26, wherein the first polymer component and the second polymer component are arranged in a side-by-side configuration.

28. The cleaning sheet according to claim 1, wherein the multicomponent, multilobal fibers comprises a higher melting point polymer component, a lower melting point polymer component and an interface between the higher melting polymer component.

29. The cleaning sheet according to claim 1, wherein the nonwoven web is electret treated.

10 30. The cleaning sheet according to claim 14, wherein the nonwoven web is electret treated.

15 31. The cleaning sheet according to claim 21, wherein the nonwoven web is electret treated.

15 32. A cleaning implement comprising:
a. a handle;
b. a head; and
c. a removable cleaning sheet;

20 wherein head is connected to the handle, the removable cleaning sheet is removable attached to the head and the removable cleaning sheet comprises the cleaning sheet of claim 1.

25 33. A cleaning implement comprising:
a. a handle;
b. a head; and
c. a removable cleaning sheet;

wherein head is connected to the handle, the removable cleaning sheet is removable attached to the head and the removable cleaning sheet comprises the cleaning sheet of 30 claim 14.

34. A cleaning implement comprising:
a. a handle;
b. a head; and
35 c. a removable cleaning sheet;

wherein head is connected to the handle, the removable cleaning sheet is removable attached to the head and the removable cleaning sheet comprises the cleaning sheet of claim 21.

5 35. A method of cleaning a surface comprising contacting and wiping the surface with the cleaning sheet of claim 1.

36. A method of cleaning a surface comprising contacting and wiping the surface with the cleaning sheet of claim 14.

10 37. A method of cleaning a surface comprising contacting and wiping the surface with the cleaning sheet of claim 21.

15 38. A cleaning kit comprising the cleaning implement according to claim 32 and a plurality of the cleaning sheets.

39. The cleaning kit of claim 38, wherein the cleaning sheets are premoistened.

40. The cleaning kit of claim 38, wherein the cleaning sheets are dry.

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